

EXAMPLES OF U.S. DEPARTMENT OF ENERGY PROJECT RISK AREAS

RISK FACTOR	LOW	<u>MODERATE</u>	<u>HIGH</u>
Technology	Conventional/off-the shelf	Proven state-of-the-a engineered equipmen	nt highly-engineered equipment
	Civil construction	Testing	R&D requirements
			Extensive testing
Time constraints/	No known schedule	Some schedule	Schedule
schedule	constraints	constraints but won't affect completion date	compressed e
Interfaces	Little or no major impact from site operations, other	Potential impact from Potent site operations, contractors, projects,	tial <u>major</u> impact from site operations,
projects	contractors	or programs	contractors,
Number of Key Participants	1	2-3	3 or more
Contractor Capabilities committed	Proven track record and resources available now	Limited experience or resource availability	New acquired capabilities or resources
Committee			to other projects
Magnitude and Complexity of Contamination	Hazard/low level characterized waste	Hazard/moderately characterized	High-level/mixed waste
Regulatory Involvement	Minimal permit requirements, NEPA, CX	Routine permit Unique requirements multiple agencies, NEPA, EA	•



Source: Cost and Schedule Estimator and Analysis (PMMS2), U.S. Department of Energy Professional Skills Training, February 20, 1997.

Source. Cost and Schedule Estimator and Analysis (1 Minis2), C.S. Department of Energy Professional Skins Training, February 20, 1997.				
RISK FACTOR	LOW	<u>MODERATE</u>	<u>HIGH</u>	
Site Characteristics	1 site	2-3 sites	4 or more sites	
Characteristics	DOE property	Government property	Private property	
	Accessible	Accessible	Restricted access	
	No required infrastructure	Minor infrastructure	Major infrastructure	
Labor	Low to moderate skill, readily available, gradual build up, low productivity requirement	Moderate/high skill, restricted availability, measured/phased build up, moderate productivity required	Moderate/high skill, severely restricted availability, rapid build up, high productivity	
	tolerances Mode	rate tolerances	Precision work	
Requirements	Low productivity risk	Moderate risk	High risk	
Political Visibility and Public Involvement	None	Minor	Major or independent oversight	
Funding	General plant project	Line item size	Strategic system or	

Size -- less than 1 year

duration

2-3 year duration

large line item size

3 or more years



Source: Cost and Schedule Estimator and Analysis (PMMS2), U.S. Department of Energy Professional Skills Training, February 20, 1997.

